## **Nazarbayev University Modification Form for Programs and/or Courses**

1. Program Details <sup>1</sup>					
1.1 Program Title:	DhD in Science E				
1.2 School:	PhD in Science, Engineering and Technology				
1.3 Department:	School of Engineering / School of Science and Technology				
2. Modifications Proposed					
2.1 Type:	2.2 Effective Date: 2.3 Collaborative <sup>2</sup> (Yes/No):				
Major □ Minor X	= 10 condition (105/110).		Yes		
2.4 Summary of modifications					
# Modifications recommended		Ration	nale		
Allow faculty from the Mining and Geosciences to as "Lead Supervisors" in the Science, Engineering and Toprogram.	participate he PhD in	•	The PhD prand Techno past 4 years School of I Science and research are as Energy Etechnologies production conventiona of Mining a well aligned main rese prospecting, natural resources of the Department Department Department Department alignment Department courses of research SEng such Digital Mine and Geotechnologies program (I Research development PhD candidational between the program of the program of the program of the phD candidational between the phD candidational between the program of the phD candidational between the phD candidational between the program of the phD candidational between the phD candidational	I sources of energy. The School and Geosciences (SMG) is very with this research area since its earch interest focuses on extracting and processing of	

An updated version of the program and/or course specification must be provided indicating the proposed modification

using tracked changes.

A collaborative program is one that is delivered in cooperation with another School or with a partner university. If a program is collaborative, the proposed modifications should be discussed and agreed upon with the partner.

- Schools could expand their elective courses pool to include courses from the three schools in a manner that will strengthen the candidates' knowledge theoretically, and practically.
- Currently faculty of SMG serve in the role of Co-Supervisors of PhD students in the program and these faculty have formal interest in proposing their own research projects for prospective PhD students. Therefore, the inclusion of SMG as partner of the PhD in Science, Engineering and Technology is a natural step towards the integration of engineering and science disciplines of Nazarbayev University in a unique multidisciplinary and cross-disciplinary successful PhD program.
- By integrating SMG into the joint SEng-SST PhD program, resources and efforts could be shared and more effectively used to the mutual benefit of the three schools and to the university in general. More importantly, a PhD degree issued in any of three schools will be unique in the science and engineering disciplines at Nazarbayev University.

Therefore, this Minor Amendment intends to override previous Minor Amendment approved by SEng T&L Committee on 2018 which enforced that "Lead Supervisor" must be from SEng or SST schools, while the Internal Co-Supervisor can be from another school or research center of NU. This Minor Amendment proposes to return to original regulation existent within program proposal approved in 2016 which establishes that at least "Lead Supervisor" or "Internal Co-Supervisor" must be from one of the two Schools (SEng or SST), allowing now faculty from School of Mining and Geosciences (SMG) to become "Lead Supervisors" of our PhD students as needed. With this measure we want to facilitate the participation of our colleagues from SMG in the PhD on Science. Engineering and Technology program starting in 2019.

• Note: This Minor Amendment is supported

Assessment

3.6

section

"Course

on Clause in Section 3 "Definitions", sub-

"Minor

weightings" of Guidelines for Modifications

Modifications":

and/or

Methods

to Programs and Courses, approved by AC, Minutes #39, 17-June-2015. Eliminate the requirement of: "One The PhD in Science, Engineering and perfect-bound copy of each PhD thesis Technology program has just started to shall be lodged in the SDO." and "One produce its first graduates (1 in 2018), but permanent-bound copy of each PhD has scheduled at least 5 more during 2019. thesis shall be lodged with the During the elaboration and approval of the University library." as established in "PhD in Science, Engineering current "PhD in Science, Engineering Technology Thesis Format Regulations" Technology Thesis and Format back in 2016, there was not limitations in Regulations" approved by AC on 2016. space and budget for hard-copy book-It is proposed that instead, due to space keeping in NU Library and School Office. and maintenance capacity, the SDO and With passing years, NU Library has adopted University library receive ONLY one a Repository system and policy that is electronic copy version in PDF. currently receiving electronic copies of theses and offering to public audience for larger diffusion of research material produced at NU. Additionally, since 2016, the School Office in the School of Engineering has suffered several physical transformations and space availability is now an issue. Therefore, NU Library and School Office would be benefited from a new policy in which final versions of new PhD theses are only delivered in electronic format. Note: This Minor Amendment is supported on Clause in Section 3 "Definitions", sub-"Minor Modifications": section 3.6 Methods "Course Assessment and/or weightings" of Guidelines for Modifications to Programs and Courses, approved by AC, Minutes #39, 17-June-2015. 3. School Approval 3.2 Date: 28.03.209 3.1 Teaching and Learning Committee/or equivalent (Chair's signature): Minutes #3 3.3 Dean's signature: 3.4 Date: 4. Academic Quality Committee (for major modifications only)

approved by the Academic Council on 17.06.2015 (#39)

4.1 Academic Quality Committee Recommendation:				
4.2 Chair's signature:	4.3 Date:			